

### ABSTRACT OF THE DISCLOSURE

An apparatus and method for acquiring multi-user signal synchronization in a CDMA system is disclosed. In a preferred embodiment, pilot signals are generated using different PN seeds and the generated pilot signals are aligned to thus be transmitted within a predetermined time from the synchronization point of time in a plurality of CDMA transmitters. A tap coefficient is varied at a prescribed interval in a frame period using a plurality of PN seeds used in the plurality of CDMA transmitters and synchronization of signals transmitted from the plurality of CDMA transmitters is acquired. The construction of the apparatus is thus simplified and multi-user signal synchronization is acquired within one frame time, which is the shortest time.